



Biochemistry Laboratory Orientation

Emergency and Facility Safety

- ☐ Identify IMCA-CAT Chemical Safety Coordinator, Katie Favale
- ☐ Identify IMCA-CAT Biosafety Coordinator, Katie Favale
- ☐ Read the emergency information posted on the yellow Safety Information board
- ☐ Locate nearest Fire Extinguishers (*at both ends of each LOM hallway*)
- ☐ Locate nearest Emergency Exits
- ☐ Locate telephone and lists of phone numbers
- ☐ Locate safety glasses (*to be worn as work requirements dictate*)
- ☐ Locate Emergency Eyewash
- ☐ Locate Emergency Shower
- ☐ Locate lab coats (*to be worn as work requirements dictate*)
- ☐ Locate gloves and learn proper use (*to be worn as work requirements dictate*)
- ☐ Locate **MSDS (Material Safety Data Sheets)** posted outside laboratory door near APS floor (*Notify IMCA-CAT CAT Coordinator regarding missing MSDS for chemicals with which you will be working. All chemicals and buffers, other than biologically relevant samples, are required to have a MSDS on file.*)
- ☐ Have you brought any radioactive materials? _____ YES _____ NO
- ☐ Have you brought any hazardous chemical materials? _____ YES _____ NO

Introduction to Biochemistry Laboratory

- ☐ Locate chemical fume hood and learn proper operations procedures
- ☐ Locate chemical storage areas (*for acids, bases, flammables, gases, heavy atom compounds, general chemicals*)
- ☐ Read, learn, and follow **IMCA-CAT Standard Operating Procedure for Hazardous Waste Disposal**
- ☐ Read, learn, and follow **IMCA-CAT Standard Operating Procedure for Derivatization of Macromolecular Crystals with Heavy-atom Reagents**
- ☐ Locate purified water
- ☐ Locate microscopes and learn operations procedures (*Instructions are in drawer of microscope tables*)
- ☐ Locate crystal manipulation tools, crystal mounting tools, and dewars
- ☐ Locate laboratory bench work area for your group
- ☐ Label your equipment and supplies so that we can contact you about items you might have left behind (*Label with Name, Institution, phone #, email or IMCA-CAT Exp. Tracking #*)
- ☐ Learn proper labeling of chemicals (*Label with Name, Institution, Date, and Contents*)
- ☐ Learn proper disposal of chemicals
- ☐ Learn that if you choose to store crystals at the IMCA-CAT facility, it is at your own risk
- ☐ Learn labeling protocol for crystal trays to remain at the IMCA-CAT facility (*Label with Name, Institution, Date, and all hazardous materials contents, i.e. heavy atoms*)
- ☐ Learn labeling protocol for crystals to be archived in the IMCA-CAT liquid nitrogen dewar (*Follow instructions posted on the liquid nitrogen archive dewar.*)
- ☐ Locate ice machine

Introduction to Cold Room

- ☐ Locate Emergency Eyewash
- ☐ Locate microscope and learn operations procedures
- ☐ Locate work area for your group